

PCTNOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

From the INTERNATIONAL BUREAU

To:

To: **HT2**cc: **CME RSD****702091**, **HGSI**
COCHRAN, Christine, M.
Leydig, Voit & Mayer, LTD.
Two Prudential Plaza
180 N. Stetson Avenue
Chicago, Illinois 60601-6731
ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)

09 October 2008 (09.10.2008)

Applicant's or agent's file reference

702091

IMPORTANT NOTICE

International application No.

PCT/US2007/008021

International filing date (day/month/year)

30 March 2007 (30.03.2007)

Priority date (day/month/year)

31 March 2006 (31.03.2006)

Applicant

HUMAN GENOME SCIENCES INC. et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

LAH**JC****LEYDIG, VOIT & MAYER
RECEIVED****OCT 29 2008**

PAT/TM Due Date _____

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Authorized officer

Beate Giffo-Schmitt

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 702091	FOR FURTHER ACTION	See item 4 below
International application No. PCT/US2007/008021	International filing date (<i>day/month/year</i>) 30 March 2007 (30.03.2007)	Priority date (<i>day/month/year</i>) 31 March 2006 (31.03.2006)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant HUMAN GENOME SCIENCES INC.		

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PAY/TM Due Date _____

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).																
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.																
In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.																	
3.	<p>This report contains indications relating to the following items:</p> <table style="width: 100%;"> <tr> <td style="width: 20%;"><input checked="" type="checkbox"/> Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/> Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/> Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/> Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/> Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/> Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/> Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/> Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table>	<input checked="" type="checkbox"/> Box No. I	Basis of the report	<input type="checkbox"/> Box No. II	Priority	<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/> Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/> Box No. VI	Certain documents cited	<input type="checkbox"/> Box No. VII	Certain defects in the international application	<input type="checkbox"/> Box No. VIII	Certain observations on the international application
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<input type="checkbox"/> Box No. VIII	Certain observations on the international application																
4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).																

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Date of issuance of this report 30 September 2008 (30.09.2008)
Facsimile No. +41 22 338 82 70	Authorized officer <p style="text-align: center;">Beate Giffo-Schmitt</p> e-mail: pt03.pct@wipo.int

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
CHRISTINE M. COCHRAN
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180 N. STETSON AVENUE
CHICAGO, IL 60601-6731

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference 705473-6001		Date of mailing (day/month/year) 04 AUG 2008
International application No. PCT/US07/08021		FOR FURTHER ACTION See paragraph 2 below
International filing date (day/month/year) 30 March 2007 (30.03.2007)	Priority date (day/month/year) 31 March 2006 (31.03.2006)	
International Patent Classification (IPC) or both national classification and IPC IPC: C12N 5/20(2006.01);C07K 16/00(2006.01);G01N 33/53 (2006.01) USPC: 435/326,331,7.1;530/387.1,387.3,388.1		
Applicant HUMAN GENOME SCIENCES, INC.		

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Date of completion of this opinion 18 July 2008 (18.07.2008)	Authorized officer <i>[Signature]</i> Dong Jiang Telephone No. 571-272-1600
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US07/08021

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

☒ the international application in the language in which it was filed☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).2. ☐ This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of:

a. type of material

☒ a sequence listing☐ table(s) related to the sequence listing

b. format of material

☒ on paper☒ in electronic form

c. time of filing/furnishing

☒ contained in the international application as filed.☒ filed together with the international application in electronic form.☐ furnished subsequently to this Authority for the purposes of search.4. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US07/08021

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>NONE</u>	YES
	Claims <u>1-10</u>	NO
Inventive step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-10</u>	NO
Industrial applicability (IA)	Claims <u>1-10</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and explanations:

Claims 1-10 lack novelty under PCT Article 33(2) as being anticipated by Yu et al. (US 2005/0186637).

Yu discloses the hybridoma with ATCC Deposit No. PTA-1158 and PTA-3794, and the antibody secreted by the hybridoma (claims 1 and 2 of the reference). Additionally, Yu teaches a monoclonal antibody comprising the VH domain of SEQ ID NO:58, and the VL domain of SEQ ID NO:59, wherein both SEQ ID NO:58 and 59 are 100% identical to the present SEQ ID NO:58 and 59 (claims 3-5 of the reference). Further, Yu teaches that the antibody can be a chimeric antibody, a humanized antibody, a single chain antibody or an antibody fragment, and that the antibody can be labeled (claims 6-8 of the reference). Furthermore, Yu teaches a method of detecting Neutrokine-alpha with the antibody (claim 10 of the reference). Therefore, the reference anticipates the present claims 1-10.